Nigel D Browning

List of Publications by Year
in descending order

288	16,270	14655 66	18130 120
papers	citations	h-index	g-index

308	308	308	20307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Formation of the Spinel Phase in the Layered Composite Cathode Used in Li-Ion Batteries. ACS Nano, 2013, 7, 760-767.	14.6	772
3	High Energy Density Lithiumâ€“Sulfur Batteries: Challenges of Thick Sulfur Cathodes. Advanced Energy Materials, 2015, 5, 1402290.	19.5	483
4	Direct in Situ Determination of the Mechanisms Controlling Nanoparticle Nucleation and Growth. ACS Nano, 2012, 6, 8599-8610.	14.6	378
5	Controlled Growth of Nanoparticles from Solution with In Situ Liquid Transmission Electron Microscopy. Nano Letters, 2011, 11, 2809-2813.	9.1	332
6	Structural and Chemical Evolution of Li- and Mn-Rich Layered Cathode Material. Chemistry of Materials, 2015, 27, 1381-1390.	6.7	311
7	Investigation of the Mechanism of Mg Insertion in Birnessite in Nonaqueous and Aqueous Rechargeable Mg-Ion Batteries. Chemistry of Materials, 2016, 28, 534-542.	6.7	287
8	Bottom-up construction of a superstructure in a porous uranium-organic crystal. Science, 2017, 356, 624-627.	12.6	286
9	Imaging of Transient Structures Using Nanosecond in Situ TEM. Science, 2008, 321, 1472-1475.	12.6	281
10	Probing the Failure Mechanism of SnO₂ Nanowires for Sodium-Ion Batteries. Nano Letters, 2013, 13, 5203-5211.	9.1	270
11	Demonstration of an Electrochemical Liquid Cell for Operando Transmission Electron Microscopy Observation of the Lithiation/Delithiation Behavior of Si Nanowire Battery Anodes. Nano Letters, 2013, 13, 6106-6112.	9.1	265
12	A Singleâ€Site Platinum CO Oxidation Catalyst in Zeolite KLTL: Microscopic and Spectroscopic Determination of the Locations of the Platinum Atoms. Angewandte Chemie - International Edition, 2014, 53, 8904-8907.	13.8	263
13	Synthesis of phase-pure and monodisperse iron oxide nanoparticles by thermal decomposition. Nanoscale, 2015, 7, 11142-11154.	5.6	252
14	Photocatalytic Water Oxidation with Nonsensitized IrO₂ Nanocrystals under Visible and UV Light. Journal of the American Chemical Society, 2011, 133, 7264-7267.	13.7	239
15	Nanoscale Strontium Titanate Photocatalysts for Overall Water Splitting. ACS Nano, 2012, 6, 7420-7426.	14.6	236
16	Conflicting Roles of Nickel in Controlling Cathode Performance in Lithium Ion Batteries. Nano Letters, 2012, 12, 5186-5191.	9.1	231
17	Segregation Effects at Grain Boundaries in Fluorite-Structured Ceramics. Journal of the American Ceramic Society, 2002, 85, 2359-2363.	3.8	219
18	Growth Mechanisms and Oxidation Resistance of Gold-Coated Iron Nanoparticles. Chemistry of Materials, 2005, 17, 3181-3186.	6.7	212

#	Article	IF	Citations
19	Photocatalytic water oxidation with suspended alpha-Fe2O3 particles-effects of nanoscaling. Energy and Environmental Science, 2011, 4, 4270.	30.8	209
20	Observing the Growth of Metalâ€“Organic Frameworks by in Situ Liquid Cell Transmission Electron Microscopy. Journal of the American Chemical Society, 2015, 137, 7322-7328.	13.7	207
21	Comparison of Comet 81P/Wild 2 Dust with Interplanetary Dust from Comets. Science, 2008, 319, 447-450.	12.6	199
22	Overall photocatalytic water splitting with NiOxâ€“SrTiO3 â€“ a revised mechanism. Energy and Environmental Science, 2012, 5, 9543.	30.8	199
23	Nonstoichiometry and the Electrical Activity of Grain Boundaries inSrTiO3. Physical Review Letters, 2001, 86, 4056-4059.	7.8	176
24	Experimental procedures to mitigate electron beam induced artifacts during in situ fluid imaging of nanomaterials. Ultramicroscopy, 2013, 127, 53-63.	1.9	176
25	Nanoscale Phase Separation, Cation Ordering, and Surface Chemistry in Pristine Li_{1.2}Ni_{0.2}Mn_{0.6}O₂for Li-Ion Batteries. Chemistry of Materials, 2013, 25, 2319-2326.	6.7	173
26	Direct imaging of single metal atoms and clusters in the pores of dealuminated HY zeolite. Nature Nanotechnology, 2010, 5, 506-510.	31.5	172
27	Direct visualization of initial SEI morphology and growth kinetics during lithium deposition by in situ electrochemical transmission electron microscopy. Chemical Communications, 2014, 50, 2104.	4.1	172
28	Direct Observation of Aggregative Nanoparticle Growth: Kinetic Modeling of the Size Distribution and Growth Rate. Nano Letters, 2014, 14, 373-378.	9.1	172
29	Imaging Isolated Gold Atom Catalytic Sites in Zeolite NaY. Angewandte Chemie - International Edition, 2012, 51, 5842-5846.	13.8	163
30	Evolution of Physical and Photocatalytic Properties in the Layered Titanates A₂Ti₄O₉ (A = K, H) and in Nanosheets Derived by Chemical Exfoliation. Chemistry of Materials, 2010, 22, 1220-1228.	6.7	160
31	Single-Crystal Tungsten Oxide Nanosheets: Photochemical Water Oxidation in the Quantum Confinement Regime. Chemistry of Materials, 2012, 24, 698-704.	6.7	158
32	Accelerated Synthesis and Discovery of Covalent Organic Framework Photocatalysts for Hydrogen Peroxide Production. Journal of the American Chemical Society, 2022, 144, 9902-9909.	13.7	154
33	Adsorption of a Catalytically Accessible Polyoxometalate in a Mesoporous Channel-type Metalâ€“Organic Framework. Chemistry of Materials, 2017, 29, 5174-5181.	6.7	143
34	The potential for Bayesian compressive sensing to significantly reduce electron dose in high-resolution STEM images. Microscopy (Oxford, England), 2014, 63, 41-51.	1.5	140
35	Probing the Degradation Mechanisms in Electrolyte Solutions for Li-Ion Batteries by in Situ Transmission Electron Microscopy. Nano Letters, 2014, 14, 1293-1299.	9.1	137
36	Supported Molecular Iridium Catalysts: Resolving Effects of Metal Nuclearity and Supports as Ligands. Journal of the American Chemical Society, 2011, 133, 16186-16195.	13.7	132

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37	The Importance of Nanometric Passivating Films on Cathodes for Liâ€“Air Batteries. ACS Nano, 2014, 8, 12483-12493.	14.6	131
38	Selective Methane Oxidation to Methanol on Cu-Oxo Dimers Stabilized by Zirconia Nodes of an NU-1000 Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 9292-9304.	13.7	131
39	First demonstration of CdSe as a photocatalyst for hydrogen evolution from water under UV and visible light. Chemical Communications, 2008, , 2206.	4.1	127
40	Atomic-Scale Imaging and Spectroscopy for In Situ Liquid Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2012, 18, 621-627.	0.4	125
41	Plasmonic Enhanced Emissions from Cubic NaYF₄:Yb:Er/Tm Nanophosphors. Chemistry of Materials, 2011, 23, 2987-2993.	6.7	124
42	Nanosecond time-resolved investigations using the in situ of dynamic transmission electron microscope (DTEM). Ultramicroscopy, 2008, 108, 1441-1449.	1.9	115
43	High-resolution low-dose scanning transmission electron microscopy. Journal of Electron Microscopy, 2010, 59, 103-112.	0.9	113
44	A site-isolated mononuclear iridium complex catalyst supported on MgO: Characterization by spectroscopy and aberration-corrected scanning transmission electron microscopy. Journal of Catalysis, 2010, 269, 318-328.	6.2	108
45	Selective Hydrodeoxygenation of Guaiacol Catalyzed by Platinum Supported on Magnesium Oxide. Catalysis Letters, 2012, 142, 1190-1196.	2.6	108
46	Diffusion mechanisms of native point defects in rutileTiO2:Ab initiototal-energy calculations. Physical Review B, 2007, 75, .	3.2	107
47	Practical considerations for high spatial and temporal resolution dynamic transmission electron microscopy. Ultramicroscopy, 2007, 107, 356-367.	1.9	99
48	K4Nb6O17-derived photocatalysts for hydrogen evolution from water: Nanoscrolls versus nanosheets. Journal of Solid State Chemistry, 2008, 181, 1678-1683.	2.9	98
49	A â€œSmartâ€•Catalyst: Sinterâ€Resistant Supported Iridium Clusters Visualized with Electron Microscopy. Angewandte Chemie - International Edition, 2012, 51, 5929-5934.	13.8	97
50	Valence electron energy-loss spectroscopy in monochromated scanning transmission electron microscopy. Ultramicroscopy, 2005, 104, 176-192.	1.9	96
51	Dynamics of Soft Nanomaterials Captured by Transmission Electron Microscopy in Liquid Water. Journal of the American Chemical Society, 2014, 136, 1162-1165.	13.7	96
52	Direct in Situ Observation of Nanoparticle Synthesis in a Liquid Crystal Surfactant Template. ACS Nano, 2012, 6, 3589-3596.	14.6	93
53	Adsorption and diffusion of Pt and Au on the stoichiometric and reducedTiO2rutile (110) surfaces. Physical Review B, 2005, 72, .	3.2	92
54	Visualizing macromolecular complexes with in situ liquid scanning transmission electron microscopy. Micron, 2012, 43, 1085-1090.	2.2	89

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55	Femtosecond Ligand/Core Dynamics of Microwave-Assisted Synthesized Silicon Quantum Dots in Aqueous Solution. Journal of the American Chemical Society, 2011, 133, 20664-20667.	13.7	88
56	Photocatalytic Water Splitting with Suspended Calcium Niobium Oxides: Why Nanoscale is Better than Bulk â€“ A Kinetic Analysis. Journal of Physical Chemistry C, 2012, 116, 3161-3170.	3.1	88
57	Interface Promoted Reversible Mg Insertion in Nanostructured Tinâ€“Antimony Alloys. Advanced Materials, 2015, 27, 6598-6605.	21.0	88
58	Active and Stable Embedded Au@CeO₂ Catalysts for Preferential Oxidation of CO. Chemistry of Materials, 2010, 22, 4335-4345.	6.7	87
59	Realizing the Full Potential of Insertion Anodes for Mg-Ion Batteries Through the Nanostructuring of Sn. Nano Letters, 2015, 15, 1177-1182.	9.1	87
60	Rational design of efficient electrodeâ€“electrolyte interfaces for solid-state energy storage using ion soft landing. Nature Communications, 2016, 7, 11399.	12.8	86
61	Towards an integrated materials characterization toolbox. Journal of Materials Research, 2011, 26, 1341-1383.	2.6	84
62	The impact of surface and retardation losses on valence electron energy-loss spectroscopy. Ultramicroscopy, 2008, 108, 84-99.	1.9	82
63	Towards full-structure determination of bimetallic nanoparticles with an aberration-corrected electron microscope. Nature Nanotechnology, 2010, 5, 843-847.	31.5	77
64	A Pyrene-4,5,9,10-Tetraone-Based Covalent Organic Framework Delivers High Specific Capacity as a Li-Ion Positive Electrode. Journal of the American Chemical Society, 2022, 144, 9434-9442.	13.7	77
65	Nanoclusters of Gold on a High-Area Support: Almost Uniform Nanoclusters Imaged by Scanning Transmission Electron Microscopy. ACS Nano, 2009, 3, 3691-3695.	14.6	75
66	Bridging Zirconia Nodes within a Metalâ€“Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. Journal of the American Chemical Society, 2017, 139, 10410-10418.	13.7	74
67	Integrated Covalent Organic Framework/Carbon Nanotube Composite as Liâ€Ion Positive Electrode with Ultraâ€High Rate Performance. Advanced Energy Materials, 2021, 11, 2101880.	19.5	73
68	An Astronomical 2175 A Feature in Interplanetary Dust Particles. Science, 2005, 307, 244-247.	12.6	70
69	A Bismuth Metalâ€“Organic Framework as a Contrast Agent for X-ray Computed Tomography. ACS Applied Bio Materials, 2019, 2, 1197-1203.	4.6	68
70	Ferroelasticity in mixed conducting LaCoO3 based perovskites: a ferroelastic phase transition. Acta Materialia, 2003, 51, 5063-5071.	7.9	67
71	The Impact of Li Grain Size on Coulombic Efficiency in Li Batteries. Scientific Reports, 2016, 6, 34267.	3.3	67
72	Hydrogen Encapsulation in a Silicon Clathrate Type I Structure:â€‰ Na_{5.5}(H₂)_{2.15}Si₄₆:â€‰ Synthesis and Characterization. Journal of the American Chemical Society, 2007, 129, 13857-13862.	13.7	66

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73	Agglomerative Sintering of an Atomically Dispersed Ir₁/Zeolite Y Catalyst: Compelling Evidence Against Ostwald Ripening but for Bimolecular and Autocatalytic Agglomeration Catalyst Sintering Steps. ACS Catalysis, 2015, 5, 3514-3527.	11.2	66
74	Molecular Storage of Mg Ions with Vanadium Oxide Nanoclusters. Advanced Functional Materials, 2016, 26, 3446-3453.	14.9	65
75	Atomic Resolution Analysis of the Defect Chemistry and Microdomain Structure of Brownmilleriteâ€Type Strontium Cobaltite. Journal of the American Ceramic Society, 2002, 85, 969-976.	3.8	63
76	Minimum Cost Multi-Way Data Association for Optimizing Multitarget Tracking of Interacting Objects. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 611-624.	13.9	60
77	Atomic and Electronic Structure of Mixed and Partial Dislocations in GaN. Physical Review Letters, 2005, 94, 025504.	7.8	59
78	Room temperature synthesis of surface-functionalised boron nanoparticles. Chemical Communications, 2007, , 580.	4.1	59
79	Atomicâ€Scale Determination of Active Facets on the MoVTeNb Oxide M1 Phase and Their Intrinsic Catalytic Activity for Ethane Oxidative Dehydrogenation. Angewandte Chemie - International Edition, 2016, 55, 8873-8877.	13.8	59
80	Design and synthesis of highly active MoVTeNb-oxides for ethane oxidative dehydrogenation. Nature Communications, 2019, 10, 4012.	12.8	59
81	Direct Evidence for Cation Nonâ€Stoichiometry and Cottrell Atmospheres Around Dislocation Cores in Functional Oxide Interfaces. Advanced Materials, 2010, 22, 2430-2434.	21.0	58
82	Co:CdS Diluted Magnetic Semiconductor Nanoparticles: Radiation Synthesis, Dopantâ^'Defect Complex Formation, and Unexpected Magnetism. Chemistry of Materials, 2008, 20, 440-446.	6.7	56
83	Quantification of the size-dependent energy gap of individual CdSe quantum dots by valence electron energy-loss spectroscopy. Ultramicroscopy, 2007, 107, 267-273.	1.9	55
84	Applying compressive sensing to TEM video: a substantial frame rate increase on any camera. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	55
85	Synthesis and characterization of Mg2Si/Si nanocomposites prepared from MgH2 and silicon, and their thermoelectric properties. Journal of Materials Chemistry, 2012, 22, 24805.	6.7	54
86	Hydrogen Activation and Metal Hydride Formation Trigger Cluster Formation from Supported Iridium Complexes. Journal of the American Chemical Society, 2012, 134, 5022-5025.	13.7	52
87	Understanding the Role of Solvation Forces on the Preferential Attachment of Nanoparticles in Liquid. ACS Nano, 2016, 10, 181-187.	14.6	51
88	Tracking Iridium Atoms with Electron Microscopy: First Steps of Metal Nanocluster Formation in One-Dimensional Zeolite Channels. Nano Letters, 2011, 11, 5537-5541.	9.1	49
89	Growth and structure of PbVO3 thin films. Applied Physics Letters, 2007, 90, 062903.	3.3	47
90	Mononuclear Zeolite-Supported Iridium: Kinetic, Spectroscopic, Electron Microscopic, and Size-Selective Poisoning Evidence for an Atomically Dispersed True Catalyst at 22 Â°C. ACS Catalysis, 2012, 2, 1947-1957.	11.2	47

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91	Gaining Control over Radiolytic Synthesis of Uniform Sub-3-nanometer Palladium Nanoparticles: Use of Aromatic Liquids in the Electron Microscope. Langmuir, 2016, 32, 1468-1477.	3.5	47
92	Low-dose aberration corrected cryo-electron microscopy of organic specimens. Ultramicroscopy, 2008, 108, 1636-1644.	1.9	46
93	In-Situ Electrochemical Transmission Electron Microscopy for Battery Research. Microscopy and Microanalysis, 2014, 20, 484-492.	0.4	45
94	Charge Separation in a Niobate Nanosheet Photocatalyst Studied with Photochemical Labeling. Langmuir, 2010, 26, 7254-7261.	3.5	44
95	Formation of Interfacial Layer and Long-Term Cyclability of Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2014, 6, 14141-14151.	8.0	44
96	Tracking Rh Atoms in Zeolite HY: First Steps of Metal Cluster Formation and Influence of Metal Nuclearity on Catalysis of Ethylene Hydrogenation and Ethylene Dimerization. Journal of Physical Chemistry Letters, 2016, 7, 2537-2543.	4.6	44
97	Improved Niobate Nanoscroll Photocatalysts for Partial Water Splitting. ChemSusChem, 2011, 4, 185-190.	6.8	43
98	Mesoscale Origin of the Enhanced Cycling-Stability of the Si-Conductive Polymer Anode for Li-ion Batteries. Scientific Reports, 2014, 4, 3684.	3.3	43
99	Oxide- and Zeolite-Supported Isostructural Ir(C₂H₄)₂ Complexes: Molecular-Level Observations of Electronic Effects of Supports as Ligands. Langmuir, 2012, 28, 12806-12815.	3.5	42
100	Formation of Oxygen Radical Sites on MoVNbTeOx by Cooperative Electron Redistribution. Journal of the American Chemical Society, 2017, 139, 12342-12345.	13.7	41
101	Site-isolated iridium complexes on MgO powder: individual Ir atoms imaged by scanning transmission electron microscopy. Chemical Communications, 2009, , 4657.	4.1	40
102	Photocatalytic Overall Water Splitting Under Visible Light Enabled by a Particulate Conjugated Polymer Loaded with Palladium and Iridium**. Angewandte Chemie - International Edition, 2022, 61, .	13.8	40
103	Anomalous Electrical Conductivity of Nanosheaves of CeO₂. Chemistry of Materials, 2009, 21, 1182-1186.	6.7	39
104	Decomposition Pathway of Ammonia Borane on the Surface of Nano-BN. Journal of Physical Chemistry C, 2010, 114, 13935-13941.	3.1	39
105	Chemical Stabilization and Electrochemical Destabilization of the Iron Keggin Ion in Water. Inorganic Chemistry, 2016, 55, 11078-11088.	4.0	39
106	Prospects for electron imaging with ultrafast time resolution. Applied Physics Letters, 2007, 90, 114101.	3.3	36
107	Structural variability of edge dislocations in a SrTiO₃ low-angle [001] tilt grain boundary. Journal of Materials Research, 2009, 24, 2191-2199.	2.6	34
108	A (S)TEM Gas Cell Holder with Localized Laser Heating forIn SituExperiments. Microscopy and Microanalysis, 2013, 19, 470-478.	0.4	33

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109	Preferential growth of Pt on rutileTiO2. Physical Review B, 2006, 73, .	3.2	32
110	The origin of refractory minerals in comet 81P/Wild 2. Geochimica Et Cosmochimica Acta, 2009, 73, 7150-7161.	3.9	32
111	Using molecular dynamics to quantify the electrical double layer and examine the potential for its direct observation in the in-situ TEM. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	32
112	Minimising damage in high resolution scanning transmission electron microscope images of nanoscale structures and processes. Nanoscale, 2020, 12, 21248-21254.	5.6	32
113	Subsampled STEM-ptychography. Applied Physics Letters, 2018, 113, .	3.3	31
114	Ab initiostructural energetics ofÎ²â^'Si3N4surfaces. Physical Review B, 2005, 72, .	3.2	30
115	Chemical Inhomogeneity and Mixed-State Ferromagnetism in Diluted Magnetic Semiconductor Co:TiO2. Chemistry of Materials, 2008, 20, 1344-1352.	6.7	30
116	Atomic Resolution of the Structure of a Metalâ€“Support Interface: Triosmium Clusters on MgO(110). Angewandte Chemie - International Edition, 2010, 49, 10089-10092.	13.8	30
117	Observing the colloidal stability of iron oxide nanoparticlesin situ. Nanoscale, 2019, 11, 13098-13107.	5.6	30
118	Three-dimensionally intercrossing Mn3O4 nanowires. Acta Materialia, 2008, 56, 3516-3522.	7.9	29
119	Enabling direct nanoscale observations of biological reactions with dynamic TEM. Microscopy (Oxford, England), 2013, 62, 147-156.	1.5	29
120	Synthesis and Characterization of K_{8â^'x}(H₂)_ySi₄₆. Inorganic Chemistry, 2010, 49, 815-822.	4.0	28
121	Intact and Fragmented Triosmium Clusters on MgO:â€‰ Characterization by X-ray Absorption Spectroscopy and High-Resolution Transmission Electron Microscopy. Journal of Physical Chemistry B, 2005, 109, 12738-12741.	2.6	27
122	Ir₆ Clusters Compartmentalized in the Supercages of Zeolite NaY: Direct Imaging of a Catalyst with Aberration-Corrected Scanning Transmission Electron Microscopy. ACS Catalysis, 2011, 1, 1613-1620.	11.2	27
123	Imaging Gold Atoms in Site-Isolated MgO-Supported Mononuclear Gold Complexes. Journal of Physical Chemistry C, 2009, 113, 16847-16849.	3.1	26
124	Quantifying transient states in materials with the dynamic transmission electron microscope. Journal of Electron Microscopy, 2010, 59, S67-S74.	0.9	26
125	Tip-Enhanced Raman Nanographs: Mapping Topography and Local Electric Fields. Nano Letters, 2015, 15, 2385-2390.	9.1	26
126	Prospects for analyzing the electronic properties in nanoscale systems by VEELS. Ultramicroscopy, 2008, 108, 270-276.	1.9	25

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127	Ultralow Contact Resistance at an Epitaxial Metal/Oxide Heterojunction Through Interstitial Site Doping. Advanced Materials, 2013, 25, 4001-4005.	21.0	24
128	Rhodium pair-sites on magnesium oxide: Synthesis, characterization, and catalysis of ethylene hydrogenation. Journal of Catalysis, 2016, 338, 12-20.	6.2	24
129	Probing 3â€Ð Structural Distortions and Coordination Changes at SrTiO₃ Grain Boundaries Using Electron Energy Loss Spectroscopy. Journal of the American Ceramic Society, 1997, 80, 781-785.	3.8	23
130	Strongly driven crystallization processes in a metallic glass. Applied Physics Letters, 2009, 94, .	3.3	23
131	Automatic recovery of missing amplitudes and phases in tilt-limited electron crystallography of two-dimensional crystals. Physical Review E, 2011, 84, 011916.	2.1	23
132	Liquid Cell Transmission Electron Microscopy Sheds Light on The Mechanism of Palladium Electrodeposition. Langmuir, 2019, 35, 862-869.	3.5	23
133	Measuring the hole-state anisotropy inMgB2by electron energy-loss spectroscopy. Physical Review B, 2003, 67, .	3.2	22
134	Pyromorphite Growth on Lead-Sulfide Surfaces. Environmental Science & Technology, 2004, 38, 5529-5534.	10.0	22
135	DC Photoelectron Gun Parameters for Ultrafast Electron Microscopy. Microscopy and Microanalysis, 2009, 15, 298-313.	0.4	22
136	Sinter-Resistant Catalysts: Supported Iridium Nanoclusters with Intrinsically Limited Sizes. Catalysis Letters, 2012, 142, 1445-1451.	2.6	22
137	Examining Elemental Surface Enrichment in Ultrafine Aerosol Particles Using Analytical Scanning Transmission Electron Microscopy. Aerosol Science and Technology, 2004, 38, 365-381.	3.1	21
138	Determination of Nanocluster Sizes from Dark-Field Scanning Transmission Electron Microscopy Images. Journal of Physical Chemistry C, 2008, 112, 1759-1763.	3.1	21
139	Laserâ€based in situ techniques: Novel methods for generating extreme conditions in TEM samples. Microscopy Research and Technique, 2009, 72, 122-130.	2.2	21
140	Atomically Resolved Site-Isolated Catalyst on MgO: Mononuclear Osmium Dicarbonyls formed from Os₃(CO)₁₂. Journal of Physical Chemistry Letters, 2012, 3, 1865-1871.	4.6	21
141	Site-Isolated Molecular Iridium Complex Catalyst Supported in the 1-Dimensional Channels of Zeolite HSSZ-53: Characterization by Spectroscopy and Aberration-Corrected Scanning Transmission Electron Microscopy. ACS Catalysis, 2012, 2, 1002-1012.	11.2	21
142	Direct atomic scale analysis of the distribution of Cu valence states in Cu/Î³-Al2O3 catalysts. Applied Catalysis B: Environmental, 2002, 38, 271-281.	20.2	20
143	Investigation of the effect of varying growth pauses on the structural and optical properties of InAs/GaAs quantum dot heterostructures. Superlattices and Microstructures, 2009, 46, 611-617.	3.1	20
144	Simulating realistic imaging conditions for in situ liquid microscopy. Ultramicroscopy, 2013, 135, 36-42.	1.9	20

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145	Electric field enhancement in a self-assembled 2D array of silver nanospheres. Journal of Chemical Physics, 2014, 141, 214308.	3.0	20
146	Microstructure investigations of Yb- and Bi-doped Mg2Si prepared from metal hydrides for thermoelectric applications. Journal of Solid State Chemistry, 2017, 245, 152-159.	2.9	20
147	Catalytic Consequences of Particle Size and Chloride Promotion in the Ring-Opening of Cyclopentane on Pt/Al₂O₃. ACS Catalysis, 2013, 3, 328-338.	11.2	19
148	Tuning interfacial exchange interactions via electronic reconstruction in transition-metal oxide heterostructures. Applied Physics Letters, 2016, 109, .	3.3	19
149	In situ electrochemical scanning/transmission electron microscopy of electrodeâ€“electrolyte interfaces. MRS Bulletin, 2020, 45, 738-745.	3.5	19
150	Direct Formation of Mesoporous Coesite Single Crystals from Periodic Mesoporous Silica at Extreme Pressure. Angewandte Chemie - International Edition, 2010, 49, 4301-4305.	13.8	18
151	Direct Visualization of Aggregate Morphology and Dynamics in a Model Soil Organicâ€“Mineral System. Environmental Science and Technology Letters, 2017, 4, 186-191.	8.7	18
152	Singleâ€Site Osmium Catalysts on MgO: Reactivity and Catalysis of CO Oxidation. Chemistry - A European Journal, 2017, 23, 2532-2536.	3.3	18
153	Nanoparticle Immobilization for Controllable Experiments in Liquid-Cell Transmission Electron Microscopy. ACS Applied Materials & Interfaces, 2018, 10, 22801-22808.	8.0	18
154	Analysis of extraterrestrial particles using monochromated electron energy-loss spectroscopy. Micron, 2005, 36, 369-379.	2.2	17
155	Application of two-dimensional crystallography and image processing to atomic resolution Z-contrast images. Journal of Electron Microscopy, 2009, 58, 223-244.	0.9	17
156	Gold Cluster Diffusion Kinetics on Stoichiometric and Reduced Surfaces of Rutile TiO₂(110). Journal of Physical Chemistry C, 2011, 115, 11611-11617.	3.1	17
157	Threeâ€Dimensional Structural Analysis of MgOâ€Supported Osmium Clusters by Electron Microscopy with Singleâ€Atom Sensitivity. Angewandte Chemie - International Edition, 2013, 52, 5262-5265.	13.8	17
158	Distribution of Metal Cations in Niâ€Moâ€W Sulfide Catalysts. ChemCatChem, 2015, 7, 3692-3704.	3.7	17
159	Electron Microscopy Investigations of Nanostructured Ce/Mn Oxides for Catalytic Wet Oxidation. Journal of Physical Chemistry C, 2010, 114, 8981-8991.	3.1	16
160	Segregation of Mn2+Dopants as Interstitials in SrTiO3Grain Boundaries. Materials Research Letters, 2014, 2, 16-22.	8.7	16
161	Enhanced Interface-Driven Perpendicular Magnetic Anisotropy by Symmetry Control in Oxide Superlattices. Physical Review Applied, 2021, 15, .	3.8	16
162	Characterization of oxygen ordering in (La, Sr)FeO3 â€“ Îby atomic resolution Zâ€contrast imaging and electron energyâ€loss spectroscopy. Journal of Electron Microscopy, 2002, 51, S59-S66.	0.9	16

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163	In Situ Laser Synthesis of Si Nanowires in the Dynamic TEM. Small, 2008, 4, 2187-2190.	10.0	15
164	Atomic and electronic structures of the SrVO3-LaAlO3 interface. Journal of Applied Physics, 2011, 110, 046104.	2.5	15
165	Tuning magnetic and transport properties through strain engineering in La0.7Sr0.3MnO3/La0.5Sr0.5TiO3 superlattices. Journal of Applied Physics, 2012, 111, 084906.	2.5	15
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